

Answer Key

Practice B

1. $5^2 = 25$
2. $3^{-1/2}$
3. $7^{5/3}$
4. $12^{1/4}$
5. $\sqrt[3]{8} = 2$
6. 2
7. $3^{-2/3}$
8. $\frac{4}{5}$
9. $10^{1/3}$
10. $3x$
11. $\sqrt[3]{2}x$
12. x
13. $\frac{x^{1/2}}{2}$
14. $2x^{1/4}$
15. $3x$
16. $2x$
17. $x^{2/3}$
18. $4y\sqrt[4]{x}$
19. $x^{3+\sqrt{5}}$
20. x^3
21. $4\sqrt{2}x\sqrt{2}$
22. $x^{-4\sqrt{3}} = \frac{1}{x^{4\sqrt{3}}}$
23. $\frac{1}{x\sqrt{2}}$
24. $x\sqrt{6}$
25. $3\sqrt[3]{3}$
26. $-\sqrt[4]{15}$
27. $8(2^{1/3})$
28. $2\sqrt{2}$
29. $3\sqrt[3]{5}$
30. $-2\sqrt[5]{3}$
31. diameter = 5.88×10^{17} miles;
thickness = 5.88×10^{16} miles
32. 12.5 in.
33. 2.5 in.
34. 0.2